

CLAIMS

1. A stepping motor comprising:

a stator assembly;

5 a rotary shaft including a lead screw portion and a plain portion which has a rotor magnet disposed concentrically thereon so as to face an inner circumference of the stator assembly, the rotary shaft having both ends thereof rotatably supported by respective bearings; and

10 a thrust mechanism disposed at one end of the rotary shaft positioned toward the lead screw portion, the thrust mechanism being structured such that a resilient member is provided in a recess formed at the one end of the rotary shaft positioned toward the lead screw portion, and a point-contact
15 member is provided between the resilient member and one bearing of the respective bearings, the one bearing rotatably supporting the one end of the rotary shaft positioned toward the lead screw portion, wherein thrust force is given by the resilient member to the rotary shaft in an axial direction.

20

2. A stepping motor according to Claim 1, wherein the resilient member is a coil spring, and the point-contact member is a spherical body made of steel.

25

30